

# MATERIAL SAFETY DATA SHEET

MSDS File Number: 113

SECTION I - MATERIAL IDENTIFICATION AND USE			FLAMMABILITY	2
Material Name / Product Identifier <b>FURNACE FUEL</b>			REACTIVITY	0
Manufacturer's Name <b>Consumers' Co-operative Refineries Limited</b> P. O. Box 260; 550E 9th Ave. North Regina, SK S4P 3A1 CANADA (306) 721-5353	Supplier's Name <b>Federated Co-operatives Limited</b> P. O. Box 1050; 401 - 22nd Street East Saskatoon, SK S7K 3M9 Canada (306) 244-3447		HEALTH (Acute)	1
			(Chronic)	Y
Emergency Telephone Number (613) 996-6666 (Canutec)	Emergency Telephone Number		Mfg Reference Number	
Chemical Name <b>Diesel/Distillate</b>	Chemical Family <b>Petroleum Hydrocarbons</b>		Chemical Formula <b>Hydrocarbon Mixture.</b>	
Molecular Weight <b>N.D.</b>	Trade Name and Synonyms <b>FURNACE FUEL; FUEL OIL</b>	Material Use <b>Heating Fuel.</b>		

SECTION II - HAZARDOUS INGREDIENTS OF MATERIALS				
Hazardous Ingredients	Approximate Concentration %	C.A.S. Numbers	Exposure Limits	LD50 / LC 50 (Species and Route)
Diesel/Distillate Fuels	98.0 - 100.0 %	68334-30-5	(ACGIH) TLV-TWA 100 mg/m3 (skin)	(LD50) Oral (rat) > 5,000 mg/kg; Dermal (rabbit) > 2,000 mg/kg
Dye	0.0 - 2.0 %		(ACGIH) TLV-TWA 5 mg/m3 (oil mist)	

SECTION III - PHYSICAL DATA FOR MATERIAL			
Physical State <b>Liquid</b>	Odour and Appearance <b>Straw Colored Hydrocarbon odor</b>	Odour Threshold (ppm) <b>N.D.</b>	Specific Gravity <b>0.84 - 0.90</b>
Vapour Pressure <b>&lt;2 psia</b>	Vapor Density (Air = 1) <b>&gt;1</b>	Evaporation Rate <b>N/A</b>	Boiling Point <b>150 - 390 C</b>
Solubility in Water (20 C) <b>insoluble</b>	% Volatiles <b>Nil</b>	pH <b>N.D.</b>	Freezing / Pour Point <b>-50 - +5 C</b>
			Coefficient of water / oil distribution <b>N/A</b>

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL			
Conditions of Flammability <b>May form combustible mixtures with air at temperatures at or above the flash point.</b>			
Means of Extinction <b>Foam, water fog, dry chemical, carbon dioxide.</b>			
Special Procedures <b>Do not point solid stream of water directly into burning product to avoid spreading fire. Contain spill. Cover spill with foam. Vapors are heavier than air and may travel to distant ignition sources and flash back. Move containers away from fire area if at no risk. Fire fighters should wear SCBA and full protective clothing.</b>			
Flash Point and Method <b>&gt; 50.0 C (Closed Cup)</b>	Upper Explosion Limit <b>6</b>	Lower Explosion Limit <b>0.7</b>	Auto Ignition Temperature <b>N/A</b>
Explosion Data - Sensitivity to Mechanical Impact <b>N.D.</b>		Explosion Data - Sensitivity to Static Discharge <b>Can be ignited by static discharge.</b>	

SECTION V - REACTIVITY DATA	
Chemical Stability <b>Yes.</b>	If no, under which conditions? <b>Stable under normal conditions of use and storage.</b>
Incompatibility to other substances <b>Yes.</b>	If so, which ones? <b>Unstable with oxidizing materials.</b>
Reactivity and under what conditions <b>Heat will greatly increase fire and explosion hazards. Avoid strong oxidizing agents.</b>	
Hazardous Decomposition and Combustion Products <b>Smoke, carbon monoxide, carbon dioxide and other toxic materials.</b>	



Material Name / Product Identifier **FURNACE FUEL**

## SECTION VI - TOXICOLOGICAL PROPERTIES OF PRODUCT

Route of Entry **Skin Contact, Skin Absorption, Eye Contact, Inhalation, Ingestion.**

Effects of Acute Exposure to Product

**Inhalation of vapors may cause headaches, nausea, dizziness, narcosis and act as a severe central nervous system depressant; vapors may also be irritating to the eyes, nose, throat and lungs. Skin contact may cause irritation, defatting and drying of skin. Eye contact may cause irritation but will not cause permanent eye damage.**

Effects of Chronic Exposure to Product

**Prolonged or repeated skin exposure may cause dermatitis. Laboratory studies involving lifetime skin painting experiments (for similar type products) have shown the development of skin cancer in experimental animals. This relationship, however, has not yet been established for humans.**

LD50 of Product <b>See 'Hazardous Ingredients'.</b>	Irritancy of Product <b>Yes.</b>	Exposure Limits of Product <b>See 'Hazardous Ingredients'.</b>
LC50 of Product <b>N.D.</b>	Sensitization to Product <b>N.D.</b>	Synergistic materials <b>N.D.</b>

**OTHER TOXICOLOGICAL EFFECTS: Carcinogenicity.**

**Laboratory studies involving lifetime skin painting experiments (for similar type products) have shown the development of skin cancer in experimental animals. This relationship, however, has not yet been established for humans. The ACGIH has classified this product as A3 - confirmed animal carcinogen with unknown relevance to humans.**

## SECTION VII - PREVENTATIVE MEASURES

Personal Protective Equipment

**Wear long sleeves to minimize skin contact. Wear chemical resistant clothing if contact with clothing or skin is likely.**

Gloves <b>Nitrile/viton.</b>	Eye Protection <b>Safety glasses/chemical goggles if splashing is likely.</b>
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Respiratory  
**Not normally required if used with adequate ventilation. Wear an appropriate NIOSH approved respirator if concentration levels exceed the safe exposure limits. If exposure levels are not known, wear an air supplied respirator (SCBA).**

Engineering Controls

**Use only in well ventilated areas. Use with explosion-proof mechanical ventilation in confined spaces or poorly ventilated areas. Lab samples should be handled with adequate ventilation (under a fume hood if necessary).**

Leak and Spill Procedure

**Ventilate area. Remove ignition sources. Contain (prevent entry into waterways). Wear protective equipment including rubber boots. Stop leak if at no risk. Pump up using explosion proof pump. Soak up remainder with an absorbent material.**

Waste Disposal

**Recycle/reprocess, incinerate or dispose of product and contaminated materials in accordance with all government regulations. Take the necessary action to prevent or remedy the adverse effects of any spill.**

Handling Procedures and Equipment

**Transfer product using proper grounding and bonding procedures to avoid static accumulation. Keep away from heat and ignition sources. Avoid contact with skin, eyes or clothing. Wear chemical resistant clothing if contact with skin or clothing is likely. Avoid breathing vapors. Use in a well ventilated area. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container may contain hazardous residue. DO NOT SIPHON BY MOUTH OR USE AS A CLEANING AGENT!**

Storage Requirements

**Store in a cool, ventilated area, away from oxidizing material and out of direct sunlight. Keep container closed.**

Special Shipping Information

**TDG: FUEL OIL Class 3 UN1202 PG III.**

## SECTION VIII - FIRST AID MEASURES

Skin

**Remove contaminated clothing, launder before reusing. Wash skin with soap and running water. If irritation persists or develops, seek medical attention. Discard contaminated leather articles.**

Eye

**Immediately flush affected eyes with warm, running water for at least 15 minutes while holding eyelids open to ensure thorough flushing. Do not use and eye ointment. Seek immediate medical attention.**

Inhalation

**Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.**

Ingestion

**Do not induce vomiting. Rinse mouth out thoroughly. Give 1/2 glass of milk. Keep victim at rest. Never give anything by mouth if victim is convulsing or is losing consciousness. Seek immediate medical attention.**

General Advice

**N/A.**

## SECTION IX - PREPARATION OF M.S.D.S

W.H.M.I.S. Classification <b>B-3, D-2(B).</b>	N.F.C. Classification
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Sources Used

**Available upon request.**

Prepared By <b>CCRL Safety Department</b>	Phone Number <b>(306) 721-0564</b>	Date <b>January 2, 2007</b>
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